

DL LTE CA Class	PCC							SCC1		SCC2		SCC3		DSI2 Power		
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx.Power (dBm)	Ref to Tx.Power (dBm)	Tune up
CA_7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	/	/	/	/	18.48	18.53	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	/	/	/	/	18.48	18.51	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	/	/	/	/	18.47	18.50	19.50
CA_38C	Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	/	/	/	/	20.59	20.59	21.50
	Band 38	20M	2585.1	37901	QPSK	1	0	Band 38	20M	/	/	/	/	20.53	20.59	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 38	20M	/	/	/	/	20.55	20.50	21.50
CA_41C	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	/	/	/	/	20.57	20.54	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	/	/	/	/	20.46	20.42	21.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	/	/	/	/	20.48	20.48	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	/	/	/	/	20.49	20.48	21.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	/	/	/	/	20.55	20.48	21.50
CA_66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	/	/	/	/	17.47	17.48	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	/	/	/	/	17.57	17.58	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	/	/	/	/	17.52	17.50	18.50
CA_66B	Band 66	15M	1717.5	132047	QPSK	1	0	Band 66	5M	/	/	/	/	17.41	17.49	18.50
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	17.56	17.42	18.50
	Band 66	15M	1772.5	132597	QPSK	1	0	Band 66	5M	/	/	/	/	17.56	17.41	18.50
CA_4A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	/	/	/	/	17.42	17.45	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	/	/	/	/	17.44	17.56	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	/	/	/	/	17.54	17.54	18.50
CA_7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	/	/	/	/	18.58	18.48	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	/	/	/	/	18.48	18.57	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	/	/	/	/	18.46	18.43	19.50
CA_41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	5M	/	/	/	/	20.48	20.42	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	5M	/	/	/	/	20.51	20.42	21.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	/	/	/	/	20.54	20.58	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	5M	/	/	/	/	20.52	20.55	21.50



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	Band 41	20M	2680	41490	QPSK	1	0	Band 41	5M	/	/	/	/	20.54	20.56	21.50
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	/	/	/	/	17.45	17.59	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	17.43	17.54	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	/	/	/	/	17.49	17.46	18.50
CA_2A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 2	20M	/	/	/	/	17.53	17.56	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	/	/	/	/	17.55	17.52	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 2	20M	/	/	/	/	17.58	17.56	18.50
CA_2A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 2	20M	/	/	/	/	18.51	18.55	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	/	/	/	/	18.43	18.47	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 2	20M	/	/	/	/	18.47	18.42	19.50
CA_2A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 2	20M	/	/	/	/	20.51	20.41	21.50
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	/	/	/	/	20.57	20.44	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 2	20M	/	/	/	/	20.49	20.59	21.50
CA_2A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 2	20M	/	/	/	/	17.41	17.50	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	/	/	/	/	17.53	17.47	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 2	20M	/	/	/	/	17.46	17.57	18.50
CA_4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 5	10M	/	/	/	/	17.46	17.46	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	/	/	/	/	17.41	17.53	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 5	10M	/	/	/	/	17.53	17.49	18.50
CA_4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	/	/	/	/	17.58	17.50	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	/	/	/	/	17.55	17.57	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	/	/	/	/	17.44	17.48	18.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	/	/	/	/	18.45	18.47	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	/	/	/	/	18.46	18.44	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	/	/	/	/	18.42	18.52	19.50
CA_5A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 5	10M	/	/	/	/	18.49	18.53	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	/	/	/	/	18.52	18.56	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 5	10M	/	/	/	/	18.51	18.45	19.50
CA_5A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 5	10M	/	/	/	/	20.53	20.44	21.50



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	Band 38	20M	2595	38000	QPSK	1	0	Band 5	10M	/	/	/	/	20.58	20.45	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 5	10M	/	/	/	/	20.45	20.51	21.50
CA_5A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 5	10M	/	/	/	/	20.48	20.50	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 5	10M	/	/	/	/	20.55	20.57	21.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	/	/	/	/	20.49	20.42	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 5	10M	/	/	/	/	20.57	20.54	21.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 5	10M	/	/	/	/	20.57	20.55	21.50
CA_5A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 5	10M	/	/	/	/	17.57	17.44	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	/	/	/	/	17.51	17.59	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 5	10M	/	/	/	/	17.53	17.56	18.50
CA_7A-26A	Band 7	20M	2510	20850	QPSK	1	0	Band 26	15M	/	/	/	/	18.55	18.53	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	/	/	/	/	18.44	18.41	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 26	15M	/	/	/	/	18.53	18.43	19.50
CA_7A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	/	/	/	/	18.57	18.47	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	/	/	/	/	18.46	18.51	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	/	/	/	/	18.49	18.56	19.50
	Band 66	20M	1720	132072	QPSK	1	0	Band 7	20M	/	/	/	/	17.44	17.55	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 7	20M	/	/	/	/	17.53	17.56	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 7	20M	/	/	/	/	17.47	17.56	18.50
CA_26A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 26	15M	/	/	/	/	20.54	20.46	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 26	15M	/	/	/	/	20.46	20.56	21.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 26	15M	/	/	/	/	20.51	20.48	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 26	15M	/	/	/	/	20.44	20.42	21.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 26	15M	/	/	/	/	20.48	20.53	21.50
CA_2A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 2	20M	/	/	17.54	17.47	18.50
CA_2A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.42	17.58	18.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	Band 4	20M	/	/	18.57	18.57	19.50
CA_2A-5A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	17.52	17.41	18.50
CA_2A-5A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 5	10M	/	/	17.46	17.47	18.50



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CA_2A-7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.59	18.59	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.57	18.47	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.45	18.54	19.50
CA_2A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 2	20M	/	/	18.50	18.43	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	17.42	17.49	18.50
CA_2A-7A-38A	Band 7	20M	2535	21100	QPSK	1	0	Band 38	20M	Band 2	20M	/	/	18.56	18.51	19.50
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	20.41	20.51	21.50
CA_4A-4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	17.55	17.48	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	17.55	17.42	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	17.55	17.44	18.50
CA_4A-4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	17.56	17.57	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	17.52	17.43	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	17.54	17.43	18.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.53	18.58	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.49	18.49	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.47	18.51	19.50
CA_5A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	18.53	18.52	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	Band 7	20M	/	/	17.44	17.57	18.50
CA_5A-66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	17.45	17.49	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	17.46	17.52	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	17.42	17.54	18.50
CA_7A-66A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.48	18.49	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.51	18.57	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.47	18.51	19.50
	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	17.54	17.59	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	17.55	17.58	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	17.44	17.50	18.50
CA_41A-41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.49	20.51	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.51	20.47	21.50



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	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.53	20.48	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.50	20.51	21.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.43	20.42	21.50
CA_2A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.45	18.45	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.41	18.54	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.41	18.54	19.50
CA_4A-7C	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	17.45	17.49	18.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	17.54	17.42	18.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	17.48	17.59	18.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	18.41	18.48	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	18.50	18.45	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	18.49	18.42	19.50
CA_5A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.45	18.58	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.48	18.52	19.50
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.53	18.58	19.50
CA_5A-66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	17.45	17.56	18.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	17.57	17.59	18.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	17.46	17.50	18.50
CA_41D	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.59	20.47	21.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.52	20.49	21.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.46	20.57	21.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.59	20.49	21.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.45	20.58	21.50
CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 66	20M	Band 66	20M	18.45	18.59	19.50



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DL LTE CA Class	PCC							SCC1		SCC2		SCC3		DS13 Power		
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx.Power (dBm)	Ref to Tx.Power (dBm)	Tune up
CA_7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	/	/	/	/	18.02	18.01	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	/	/	/	/	17.91	17.95	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	/	/	/	/	17.96	17.92	19.00
CA_38C	Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	/	/	/	/	19.92	19.93	21.00
	Band 38	20M	2585.1	37901	QPSK	1	0	Band 38	20M	/	/	/	/	19.91	19.99	21.00
	Band 38	20M	2610	38150	QPSK	1	0	Band 38	20M	/	/	/	/	20.04	19.93	21.00
CA_41C	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	/	/	/	/	20.07	20.05	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	/	/	/	/	20.05	20.02	21.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	/	/	/	/	19.99	20.01	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	/	/	/	/	19.91	19.93	21.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	/	/	/	/	19.93	19.95	21.00
CA_66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	/	/	/	/	16.59	16.42	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	/	/	/	/	16.43	16.59	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	/	/	/	/	16.47	16.57	17.50
CA_66B	Band 66	15M	1717.5	132047	QPSK	1	0	Band 66	5M	/	/	/	/	16.54	16.47	17.50
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	16.44	16.57	17.50
	Band 66	15M	1772.5	132597	QPSK	1	0	Band 66	5M	/	/	/	/	16.47	16.45	17.50
CA_4A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	/	/	/	/	16.49	16.50	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	/	/	/	/	16.50	16.56	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	/	/	/	/	16.54	16.47	17.50
CA_7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	/	/	/	/	17.95	18.05	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	/	/	/	/	18.05	18.05	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	/	/	/	/	18.03	18.04	19.00
CA_41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	5M	/	/	/	/	19.93	19.92	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	5M	/	/	/	/	20.05	19.92	21.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	/	/	/	/	19.95	20.02	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	5M	/	/	/	/	19.93	19.94	21.00



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	Band 41	20M	2680	41490	QPSK	1	0	Band 41	5M	/	/	/	/	20.01	19.93	21.00
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	/	/	/	/	16.53	16.54	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	16.59	16.52	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	/	/	/	/	16.44	16.57	17.50
CA_2A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 2	20M	/	/	/	/	16.42	16.48	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	/	/	/	/	16.53	16.55	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 2	20M	/	/	/	/	16.45	16.57	17.50
CA_2A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 2	20M	/	/	/	/	18.01	17.97	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	/	/	/	/	17.94	17.96	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 2	20M	/	/	/	/	17.93	18.05	19.00
CA_2A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 2	20M	/	/	/	/	19.94	19.99	21.00
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	/	/	/	/	19.91	19.99	21.00
	Band 38	20M	2610	38150	QPSK	1	0	Band 2	20M	/	/	/	/	20.00	19.99	21.00
CA_2A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 2	20M	/	/	/	/	16.51	16.51	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	/	/	/	/	16.58	16.45	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 2	20M	/	/	/	/	16.45	16.55	17.50
CA_4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 5	10M	/	/	/	/	16.49	16.48	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	/	/	/	/	16.46	16.57	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 5	10M	/	/	/	/	16.57	16.56	17.50
CA_4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	/	/	/	/	16.49	16.43	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	/	/	/	/	16.53	16.42	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	/	/	/	/	16.44	16.54	17.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	/	/	/	/	17.94	17.94	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	/	/	/	/	18.06	18.03	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	/	/	/	/	18.09	17.97	19.00
CA_5A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 5	10M	/	/	/	/	17.91	17.95	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	/	/	/	/	17.95	17.96	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 5	10M	/	/	/	/	17.94	17.92	19.00
CA_5A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 5	10M	/	/	/	/	20.07	19.97	21.00



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	Band 38	20M	2595	38000	QPSK	1	0	Band 5	10M	/	/	/	/	20.04	19.95	21.00
	Band 38	20M	2610	38150	QPSK	1	0	Band 5	10M	/	/	/	/	19.99	20.02	21.00
CA_5A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 5	10M	/	/	/	/	19.92	19.99	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 5	10M	/	/	/	/	19.99	20.01	21.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	/	/	/	/	19.96	19.99	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 5	10M	/	/	/	/	19.95	19.96	21.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 5	10M	/	/	/	/	19.92	20.07	21.00
CA_5A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 5	10M	/	/	/	/	16.41	16.54	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	/	/	/	/	16.45	16.49	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 5	10M	/	/	/	/	16.58	16.48	17.50
CA_7A-26A	Band 7	20M	2510	20850	QPSK	1	0	Band 26	15M	/	/	/	/	18.06	17.92	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	/	/	/	/	17.98	18.07	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 26	15M	/	/	/	/	17.95	17.96	19.00
CA_7A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	/	/	/	/	18.09	18.02	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	/	/	/	/	17.98	17.96	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	/	/	/	/	17.98	17.93	19.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 7	20M	/	/	/	/	16.41	16.51	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 7	20M	/	/	/	/	16.50	16.59	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 7	20M	/	/	/	/	16.47	16.48	17.50
CA_26A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 26	15M	/	/	/	/	20.03	19.92	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 26	15M	/	/	/	/	19.92	20.01	21.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 26	15M	/	/	/	/	19.92	19.96	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 26	15M	/	/	/	/	20.09	20.04	21.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 26	15M	/	/	/	/	19.91	19.96	21.00
CA_2A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 2	20M	/	/	16.45	16.55	17.50
CA_2A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	16.47	16.50	17.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	Band 4	20M	/	/	18.06	17.92	19.00
CA_2A-5A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	16.48	16.57	17.50
CA_2A-5A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 5	10M	/	/	16.57	16.57	17.50



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CA_2A-7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.04	18.03	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	17.92	17.97	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.01	18.00	19.00
CA_2A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 2	20M	/	/	17.98	17.95	19.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	16.47	16.44	17.50
CA_2A-7A-38A	Band 7	20M	2535	21100	QPSK	1	0	Band 38	20M	Band 2	20M	/	/	17.99	17.93	19.00
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	20.00	20.02	21.00
CA_4A-4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	16.50	16.59	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	16.59	16.53	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	16.56	16.53	17.50
CA_4A-4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	16.44	16.53	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	16.55	16.48	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	16.48	16.52	17.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.06	17.96	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.00	17.93	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.09	17.91	19.00
CA_5A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	17.93	17.94	19.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	Band 7	20M	/	/	16.59	16.44	17.50
CA_5A-66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	16.46	16.44	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	16.53	16.47	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	16.42	16.47	17.50
CA_7A-66A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	17.94	17.92	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.02	18.05	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	17.97	17.94	19.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	16.54	16.51	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	16.53	16.51	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	16.56	16.56	17.50
CA_41A-41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.00	19.99	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.93	20.06	21.00



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	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.96	19.98	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.98	19.94	21.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.98	19.95	21.00
CA_2A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.94	18.05	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.04	17.95	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.01	17.95	19.00
CA_4A-7C	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	16.51	16.42	17.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	16.41	16.55	17.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	16.45	16.54	17.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	17.95	18.03	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	17.99	18.04	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	18.09	18.05	19.00
CA_5A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.04	17.97	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.00	18.00	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	17.95	18.09	19.00
CA_5A-66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	16.44	16.45	17.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	16.47	16.53	17.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	16.41	16.47	17.50
CA_41D	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.98	20.02	21.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.06	19.99	21.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.93	20.04	21.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.93	19.93	21.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	20.07	19.97	21.00
CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 66	20M	Band 66	20M	17.91	18.00	19.00



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DL LTE CA Class	PCC							SCC1		SCC2		SCC3		DSI5 Power		
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx.Power (dBm)	Ref to Tx.Power (dBm)	Tune up
CA_7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	/	/	/	/	18.09	18.01	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	/	/	/	/	18.02	18.09	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	/	/	/	/	17.92	17.93	19.00
CA_38C	Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	/	/	/	/	20.44	20.54	21.50
	Band 38	20M	2585.1	37901	QPSK	1	0	Band 38	20M	/	/	/	/	20.53	20.47	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 38	20M	/	/	/	/	20.42	20.58	21.50
CA_41C	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	/	/	/	/	19.43	19.45	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	/	/	/	/	19.42	19.46	20.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	/	/	/	/	19.50	19.59	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	/	/	/	/	19.57	19.41	20.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	/	/	/	/	19.49	19.45	20.50
CA_66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	/	/	/	/	19.94	19.99	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	/	/	/	/	19.97	20.00	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	/	/	/	/	19.94	20.03	21.00
CA_66B	Band 66	15M	1717.5	132047	QPSK	1	0	Band 66	5M	/	/	/	/	19.91	20.07	21.00
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	20.02	19.92	21.00
	Band 66	15M	1772.5	132597	QPSK	1	0	Band 66	5M	/	/	/	/	19.92	20.04	21.00
CA_4A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	/	/	/	/	19.98	20.06	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	/	/	/	/	19.97	19.95	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	/	/	/	/	19.92	20.07	21.00
CA_7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	/	/	/	/	18.08	17.93	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	/	/	/	/	18.07	17.94	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	/	/	/	/	17.95	18.01	19.00
CA_41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	5M	/	/	/	/	19.45	19.49	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	5M	/	/	/	/	19.57	19.46	20.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	/	/	/	/	19.56	19.48	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	5M	/	/	/	/	19.55	19.43	20.50



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	Band 41	20M	2680	41490	QPSK	1	0	Band 41	5M	/	/	/	/	19.48	19.52	20.50
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	/	/	/	/	20.07	19.99	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	19.91	19.92	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	/	/	/	/	20.09	19.93	21.00
CA_2A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 2	20M	/	/	/	/	20.07	20.04	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	/	/	/	/	19.99	19.91	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 2	20M	/	/	/	/	19.92	20.00	21.00
CA_2A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 2	20M	/	/	/	/	17.93	18.07	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	/	/	/	/	17.96	17.91	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 2	20M	/	/	/	/	18.02	17.91	19.00
CA_2A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 2	20M	/	/	/	/	20.56	20.42	21.50
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	/	/	/	/	20.45	20.50	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 2	20M	/	/	/	/	20.46	20.53	21.50
CA_2A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 2	20M	/	/	/	/	20.03	20.03	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	/	/	/	/	19.98	20.07	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 2	20M	/	/	/	/	19.94	20.06	21.00
CA_4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 5	10M	/	/	/	/	19.92	20.01	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	/	/	/	/	20.04	19.92	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 5	10M	/	/	/	/	20.03	20.01	21.00
CA_4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	/	/	/	/	20.06	19.98	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	/	/	/	/	19.94	19.92	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	/	/	/	/	20.02	19.95	21.00
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	/	/	/	/	17.93	18.02	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	/	/	/	/	17.98	17.96	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	/	/	/	/	18.03	17.91	19.00
CA_5A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 5	10M	/	/	/	/	17.93	18.07	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	/	/	/	/	18.00	18.01	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 5	10M	/	/	/	/	17.99	17.96	19.00
CA_5A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 5	10M	/	/	/	/	20.52	20.42	21.50



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	Band 38	20M	2595	38000	QPSK	1	0	Band 5	10M	/	/	/	/	20.51	20.47	21.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 5	10M	/	/	/	/	20.57	20.54	21.50
CA_5A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 5	10M	/	/	/	/	19.59	19.49	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 5	10M	/	/	/	/	19.49	19.58	20.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	/	/	/	/	19.44	19.47	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 5	10M	/	/	/	/	19.47	19.44	20.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 5	10M	/	/	/	/	19.43	19.45	20.50
CA_5A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 5	10M	/	/	/	/	19.94	20.01	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	/	/	/	/	20.08	20.07	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 5	10M	/	/	/	/	20.07	20.01	21.00
CA_7A-26A	Band 7	20M	2510	20850	QPSK	1	0	Band 26	15M	/	/	/	/	18.03	17.92	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	/	/	/	/	18.09	17.98	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 26	15M	/	/	/	/	17.98	18.06	19.00
CA_7A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	/	/	/	/	18.04	18.09	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	/	/	/	/	18.05	18.09	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	/	/	/	/	17.94	18.05	19.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 7	20M	/	/	/	/	20.08	19.96	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 7	20M	/	/	/	/	19.95	20.09	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 7	20M	/	/	/	/	19.93	20.08	21.00
CA_26A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 26	15M	/	/	/	/	19.46	19.58	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 26	15M	/	/	/	/	19.48	19.56	20.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 26	15M	/	/	/	/	19.41	19.45	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 26	15M	/	/	/	/	19.49	19.42	20.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 26	15M	/	/	/	/	19.53	19.41	20.50
CA_2A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 2	20M	/	/	19.92	20.01	21.00
CA_2A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	19.99	19.95	21.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	Band 4	20M	/	/	17.97	17.94	19.00
CA_2A-5A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	20.02	20.03	21.00
CA_2A-5A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 5	10M	/	/	19.94	19.95	21.00



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CA_2A-7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.07	18.00	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	17.92	17.93	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	18.03	18.00	19.00
CA_2A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 2	20M	/	/	17.92	17.98	19.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	20.00	20.06	21.00
CA_2A-7A-38A	Band 7	20M	2535	21100	QPSK	1	0	Band 38	20M	Band 2	20M	/	/	18.01	18.05	19.00
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	20.47	20.53	21.50
CA_4A-4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	19.96	19.92	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	20.05	20.08	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	19.96	20.06	21.00
CA_4A-4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	20.05	19.92	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	20.05	19.96	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	20.02	19.94	21.00
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	17.96	18.08	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	18.08	17.98	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	17.93	18.00	19.00
CA_5A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	17.99	18.09	19.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	Band 7	20M	/	/	19.99	19.98	21.00
CA_5A-66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	19.94	20.05	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	19.94	20.01	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	19.99	20.07	21.00
CA_7A-66A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	17.92	17.93	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.01	18.01	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	18.03	18.08	19.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	20.06	20.02	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	19.91	20.09	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	20.07	20.01	21.00
CA_41A-41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.52	19.57	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.55	19.58	20.50



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	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.45	19.52	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.46	19.45	20.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.50	19.46	20.50
CA_2A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.01	17.93	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.03	18.09	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.96	17.99	19.00
CA_4A-7C	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	19.95	19.97	21.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	19.95	20.08	21.00
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	19.97	20.03	21.00
	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	17.91	18.06	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	17.92	18.09	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	18.06	18.01	19.00
CA_5A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	17.95	18.05	19.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.00	17.98	19.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.01	17.94	19.00
CA_5A-66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	19.94	19.92	21.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	19.94	20.08	21.00
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	20.07	20.03	21.00
CA_41D	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.52	19.52	20.50
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.56	19.44	20.50
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.56	19.52	20.50
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.41	19.47	20.50
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	19.52	19.43	20.50
CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 66	20M	Band 66	20M	17.95	18.01	19.00



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DL LTE CA Class	PCC							SCC1		SCC2		SCC3		DSI8/9/10 Power		
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx.Power (dBm)	Ref to Tx.Power (dBm)	Tune up
CA_7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	/	/	/	/	17.02	16.95	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	/	/	/	/	17.04	17.03	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	/	/	/	/	16.91	16.99	18.00
CA_38C	Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	/	/	/	/	19.55	19.48	20.50
	Band 38	20M	2585.1	37901	QPSK	1	0	Band 38	20M	/	/	/	/	19.56	19.42	20.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 38	20M	/	/	/	/	19.48	19.55	20.50
CA_41C	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	/	/	/	/	17.98	17.94	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	/	/	/	/	18.01	17.96	19.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	/	/	/	/	17.93	18.04	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	/	/	/	/	17.94	18.03	19.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	/	/	/	/	17.93	18.07	19.00
CA_66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	/	/	/	/	18.57	18.59	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	/	/	/	/	18.53	18.41	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	/	/	/	/	18.44	18.44	19.50
CA_66B	Band 66	15M	1717.5	132047	QPSK	1	0	Band 66	5M	/	/	/	/	18.57	18.47	19.50
	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	18.46	18.54	19.50
	Band 66	15M	1772.5	132597	QPSK	1	0	Band 66	5M	/	/	/	/	18.44	18.44	19.50
CA_4A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	/	/	/	/	18.45	18.45	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	/	/	/	/	18.54	18.51	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	/	/	/	/	18.49	18.52	19.50
CA_7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	/	/	/	/	16.94	17.00	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	/	/	/	/	16.99	16.98	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	/	/	/	/	16.94	17.09	18.00
CA_41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	5M	/	/	/	/	17.95	17.95	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	5M	/	/	/	/	18.05	17.92	19.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	/	/	/	/	17.97	18.05	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	5M	/	/	/	/	18.01	17.95	19.00



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	Band 41	20M	2680	41490	QPSK	1	0	Band 41	5M	/	/	/	/	17.93	17.98	19.00
CA_66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	/	/	/	/	18.43	18.41	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	/	/	/	/	18.49	18.46	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	/	/	/	/	18.59	18.44	19.50
CA_2A-4A	Band 4	20M	1720	20050	QPSK	1	0	Band 2	20M	/	/	/	/	18.53	18.59	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	/	/	/	/	18.44	18.55	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 2	20M	/	/	/	/	18.43	18.57	19.50
CA_2A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 2	20M	/	/	/	/	17.07	16.98	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	/	/	/	/	16.96	17.04	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 2	20M	/	/	/	/	17.06	17.05	18.00
CA_2A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 2	20M	/	/	/	/	19.55	19.42	20.50
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	/	/	/	/	19.59	19.57	20.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 2	20M	/	/	/	/	19.56	19.50	20.50
CA_2A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 2	20M	/	/	/	/	18.51	18.41	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	/	/	/	/	18.49	18.48	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 2	20M	/	/	/	/	18.48	18.56	19.50
CA_4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 5	10M	/	/	/	/	18.57	18.41	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	/	/	/	/	18.53	18.54	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 5	10M	/	/	/	/	18.59	18.43	19.50
CA_4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	/	/	/	/	18.54	18.48	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	/	/	/	/	18.41	18.52	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	/	/	/	/	18.58	18.44	19.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	/	/	/	/	17.01	16.95	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	/	/	/	/	17.01	17.01	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	/	/	/	/	17.06	16.96	18.00
CA_5A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 5	10M	/	/	/	/	17.06	17.08	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	/	/	/	/	17.03	17.02	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 5	10M	/	/	/	/	17.01	17.09	18.00
CA_5A-38A	Band 38	20M	2580	37850	QPSK	1	0	Band 5	10M	/	/	/	/	19.59	19.59	20.50



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	Band 38	20M	2595	38000	QPSK	1	0	Band 5	10M	/	/	/	/	19.59	19.49	20.50
	Band 38	20M	2610	38150	QPSK	1	0	Band 5	10M	/	/	/	/	19.56	19.51	20.50
CA_5A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 5	10M	/	/	/	/	18.00	18.01	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 5	10M	/	/	/	/	18.09	17.94	19.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	/	/	/	/	18.04	18.06	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 5	10M	/	/	/	/	18.01	17.91	19.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 5	10M	/	/	/	/	17.93	17.91	19.00
CA_5A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 5	10M	/	/	/	/	18.56	18.55	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	/	/	/	/	18.43	18.56	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 5	10M	/	/	/	/	18.43	18.53	19.50
CA_7A-26A	Band 7	20M	2510	20850	QPSK	1	0	Band 26	15M	/	/	/	/	16.92	17.08	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	/	/	/	/	16.94	16.97	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 26	15M	/	/	/	/	17.01	16.98	18.00
CA_7A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	/	/	/	/	17.04	17.01	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	/	/	/	/	16.96	16.94	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	/	/	/	/	16.95	17.02	18.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 7	20M	/	/	/	/	18.44	18.46	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 7	20M	/	/	/	/	18.49	18.52	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 7	20M	/	/	/	/	18.41	18.47	19.50
CA_26A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 26	15M	/	/	/	/	18.05	17.93	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 26	15M	/	/	/	/	18.05	17.94	19.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 26	15M	/	/	/	/	18.06	18.09	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 26	15M	/	/	/	/	17.96	18.08	19.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 26	15M	/	/	/	/	18.09	17.94	19.00
CA_2A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 2	20M	/	/	18.42	18.41	19.50
CA_2A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	18.50	18.48	19.50
	Band 7	20M	2535	21100	QPSK	1	0	Band 2	20M	Band 4	20M	/	/	16.98	16.95	18.00
CA_2A-5A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	18.49	18.55	19.50
CA_2A-5A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 5	10M	/	/	18.52	18.52	19.50



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CA_2A-7A-7A	Band 7	20M	2510	20850	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	17.03	16.95	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	16.92	16.91	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	Band 2	20M	/	/	17.07	17.02	18.00
CA_2A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 2	20M	/	/	17.01	17.07	18.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	18.45	18.56	19.50
CA_2A-7A-38A	Band 7	20M	2535	21100	QPSK	1	0	Band 38	20M	Band 2	20M	/	/	17.09	16.97	18.00
	Band 38	20M	2595	38000	QPSK	1	0	Band 2	20M	Band 7	20M	/	/	19.44	19.44	20.50
CA_4A-4A-5A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	18.44	18.59	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	18.47	18.45	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 5	10M	/	/	18.46	18.52	19.50
CA_4A-4A-7A	Band 4	20M	1720	20050	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	18.41	18.48	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	18.44	18.47	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	Band 7	20M	/	/	18.53	18.49	19.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	17.02	17.02	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	17.03	17.03	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	Band 4	5M	/	/	17.02	17.01	18.00
CA_5A-7A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	16.94	17.09	18.00
	Band 66	20M	1745	132322	QPSK	1	0	Band 5	10M	Band 7	20M	/	/	18.41	18.42	19.50
CA_5A-66A-66A	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	18.53	18.55	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	18.44	18.59	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 5	10M	/	/	18.56	18.53	19.50
CA_7A-66A-66A	Band 7	20M	2510	20850	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	16.92	17.04	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	17.02	17.02	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 66	20M	Band 66	5M	/	/	16.94	17.05	18.00
	Band 66	20M	1720	132072	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	18.57	18.47	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	18.42	18.55	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	5M	Band 7	20M	/	/	18.54	18.51	19.50
CA_41A-41A-41A	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	17.98	17.93	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	17.92	17.97	19.00



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	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.01	17.91	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.04	17.96	19.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.00	18.05	19.00
CA_2A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.00	17.07	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.02	16.98	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 2	20M	/	/	17.04	16.98	18.00
CA_4A-7C	Band 4	20M	1720	20050	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	18.48	18.50	19.50
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	18.48	18.59	19.50
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	Band 7	20M	/	/	18.56	18.54	19.50
	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	16.96	16.96	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	16.95	16.96	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 4	20M	/	/	17.02	16.95	18.00
CA_5A-7C	Band 7	20M	2510	20850	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	16.92	17.02	18.00
	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	16.98	16.98	18.00
	Band 7	20M	2560	21350	QPSK	1	0	Band 7	20M	Band 5	10M	/	/	16.92	17.02	18.00
CA_5A-66C	Band 66	20M	1720	132072	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	18.59	18.59	19.50
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	18.47	18.47	19.50
	Band 66	20M	1770	132572	QPSK	1	0	Band 66	20M	Band 5	10M	/	/	18.53	18.59	19.50
CA_41D	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.01	18.04	19.00
	Band 41	20M	2549.5	40185	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.05	17.94	19.00
	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	18.07	18.03	19.00
	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	17.94	17.97	19.00
	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	Band 41	20M	/	/	17.91	17.93	19.00
CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	Band 66	20M	Band 66	20M	16.94	17.07	18.00



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## 6 Conducted Power of LTE Uplink CA

### 6.1 Conducted Power of LTE Uplink CA (Ant13)

Combination	Modulation	PCC				SCC				DSI2		DSI3		DSI4		DSI5		DSI8/9/10			
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_7C	QPSK	7	20	20850	1	0	7	20	21048	0	0	13.87	14.50	12.84	13.50	19.89	20.50	17.87	18.50	15.35	16.00
CA_7C	QPSK	7	20	21100	1	0	7	20	21298	0	0	13.75	14.50	12.79	13.50	19.86	20.50	17.85	18.50	15.34	16.00
CA_7C	QPSK	7	20	21100	1	0	7	20	20902	0	0	13.82	14.50	12.75	13.50	19.87	20.50	17.84	18.50	15.27	16.00
CA_7C	QPSK	7	20	21350	1	0	7	20	21152	0	0	13.78	14.50	12.78	13.50	19.86	20.50	17.83	18.50	15.32	16.00

Combination	Modulation	PCC				SCC				DSI2		DSI3		DSI4/5		DSI8/9/10			
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_38C	QPSK	38	20	37850	1	0	38	20	38048	0	0	14.11	15.50	13.12	14.50	20.26	21.50	16.13	17.50
CA_38C	QPSK	38	20	37901	1	0	38	20	38099	0	0	14.12	15.50	13.11	14.50	20.21	21.50	16.21	17.50
CA_38C	QPSK	38	20	38099	1	0	38	20	37901	0	0	14.21	15.50	13.15	14.50	20.23	21.50	16.22	17.50
CA_38C	QPSK	38	20	38150	1	0	38	20	37952	0	0	14.13	15.50	13.19	14.50	20.22	21.50	16.14	17.50

Combination	Modulation	PCC				SCC				DSI2		DSI3		DSI4/5		DSI8/9/10			
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_41C	QPSK	41	20	39750	1	0	41	20	39948	0	0	14.31	15.50	13.38	14.50	20.28	21.50	15.78	17.00
CA_41C	QPSK	41	20	40185	1	0	41	20	40383	0	0	14.29	15.50	13.36	14.50	20.35	21.50	15.66	17.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40818	0	0	14.36	15.50	13.39	14.50	20.33	21.50	15.89	17.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40422	0	0	14.35	15.50	13.34	14.50	20.29	21.50	15.95	17.00
CA_41C	QPSK	41	20	41055	1	0	41	20	40857	0	0	14.33	15.50	13.41	14.50	20.27	21.50	15.91	17.00
CA_41C	QPSK	41	20	41490	1	0	41	20	41292	0	0	14.29	15.50	13.45	14.50	20.31	21.50	15.88	17.00



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Shenzhen Branch Technical Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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Combination	Modulation	PCC					SCC					DSI4		DSI2		DSI3		DSI5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_66C	QPSK	66	20	132072	1	0	66	20	132270	0	0	22.75	24.50	15.68	16.50	14.77	15.50	21.69	22.50	20.13	21.00
CA_66C	QPSK	66	20	132322	1	0	66	20	132520	0	0	22.78	24.50	15.65	16.50	14.72	15.50	21.65	22.50	20.1	21.00
CA_66C	QPSK	66	20	132322	1	0	66	20	132124	0	0	22.81	24.50	15.64	16.50	14.69	15.50	21.62	22.50	20.12	21.00
CA_66C	QPSK	66	20	132572	1	0	66	20	132374	0	0	22.62	24.50	15.61	16.50	14.63	15.50	21.61	22.50	20.05	21.00



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**6.2 Conducted Power of LTE Uplink CA (Ant31)**

Combination	Modulation	PCC					SCC					DSI2/3/4/5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	0	7	20	21048	0	0	21.51	23.50	20.86	22.00
CA_7C	QPSK	7	20	21100	1	0	7	20	21298	0	0	21.55	23.50	20.78	22.00
CA_7C	QPSK	7	20	21100	1	0	7	20	20902	0	0	21.56	23.50	20.85	22.00
CA_7C	QPSK	7	20	21350	1	0	7	20	21152	0	0	21.52	23.50	20.84	22.00

Combination	Modulation	PCC					SCC					DSI2/3/4/5/8/9/10	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	0	38	20	38048	0	0	23.45	24.50
CA_38C	QPSK	38	20	37901	1	0	38	20	38099	0	0	23.46	24.50
CA_38C	QPSK	38	20	38099	1	0	38	20	37901	0	0	23.39	24.50
CA_38C	QPSK	38	20	38150	1	0	38	20	37952	0	0	23.38	24.50

Combination	Modulation	PCC					SCC					DSI2/3		DSI4/5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	0	41	20	39948	0	0	23.53	25.00	22.86	24.00	21.96	23.00
CA_41C	QPSK	41	20	40185	1	0	41	20	40383	0	0	23.62	25.00	22.87	24.00	21.98	23.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40818	0	0	23.59	25.00	22.91	24.00	21.95	23.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40422	0	0	23.58	25.00	22.86	24.00	21.89	23.00
CA_41C	QPSK	41	20	41055	1	0	41	20	40857	0	0	23.61	25.00	22.89	24.00	21.88	23.00
CA_41C	QPSK	41	20	41490	1	0	41	20	41292	0	0	23.63	25.00	22.95	24.00	21.91	23.00

Combination	Modulation	PCC					SCC					DSI2/3		DSI4/5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_66C	QPSK	66	20	132072	1	0	66	20	132270	0	0	22.57	24.00	21.48	22.00	20.05	20.50
CA_66C	QPSK	66	20	132322	1	0	66	20	132520	0	0	22.58	24.00	21.55	22.00	20.04	20.50
CA_66C	QPSK	66	20	132322	1	0	66	20	132124	0	0	22.59	24.00	21.41	22.00	20.08	20.50
CA_66C	QPSK	66	20	132572	1	0	66	20	132374	0	0	22.51	24.00	21.53	22.00	20.11	20.50



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**6.3 Conducted Power of LTE Uplink CA (Ant11)**

Combination	Modulation	PCC					SCC					DSI4		DSI2		DSI3/5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_7C	QPSK	7	20	20850	1	0	7	20	21048	0	0	21.87	23.50	18.77	19.50	18.28	19.00	17.32	18.00
CA_7C	QPSK	7	20	21100	1	0	7	20	21298	0	0	21.95	23.50	18.74	19.50	18.33	19.00	17.25	18.00
CA_7C	QPSK	7	20	21100	1	0	7	20	20902	0	0	21.93	23.50	18.71	19.50	18.34	19.00	17.26	18.00
CA_7C	QPSK	7	20	21350	1	0	7	20	21152	0	0	21.97	23.50	18.76	19.50	18.35	19.00	17.24	18.00

Combination	Modulation	PCC					SCC					DSI4		DSI2/5		DSI3		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_38C	QPSK	38	20	37850	1	0	38	20	38048	0	0	23.32	25.00	20.18	21.50	19.53	21.00	19.93	20.50
CA_38C	QPSK	38	20	37901	1	0	38	20	38099	0	0	23.25	25.00	20.02	21.50	19.46	21.00	19.91	20.50
CA_38C	QPSK	38	20	38099	1	0	38	20	37901	0	0	23.31	25.00	20.07	21.50	19.41	21.00	19.88	20.50
CA_38C	QPSK	38	20	38150	1	0	38	20	37952	0	0	23.18	25.00	20.06	21.50	19.42	21.00	19.85	20.50

Combination	Modulation	PCC					SCC					DSI4		DSI2		DSI3		DSI5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_41C	QPSK	41	20	39750	1	0	41	20	39948	0	0	23.77	25.00	21.21	21.50	20.68	21.00	20.11	20.50	18.51	19.00
CA_41C	QPSK	41	20	40185	1	0	41	20	40383	0	0	23.68	25.00	21.15	21.50	20.65	21.00	20.05	20.50	18.55	19.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40818	0	0	23.66	25.00	21.18	21.50	20.66	21.00	20.08	20.50	18.49	19.00
CA_41C	QPSK	41	20	40620	1	0	41	20	40422	0	0	23.75	25.00	21.16	21.50	20.52	21.00	20.09	20.50	18.56	19.00
CA_41C	QPSK	41	20	41055	1	0	41	20	40857	0	0	23.76	25.00	21.17	21.50	20.49	21.00	20.06	20.50	18.52	19.00
CA_41C	QPSK	41	20	41490	1	0	41	20	41292	0	0	23.78	25.00	21.22	21.50	20.51	21.00	20.07	20.50	18.53	19.00



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Combination	Modulation	PCC					SCC					DSI4		DSI2		DSI3		DSI5		DSI8/9/10	
		Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Band	BW (MHz)	UL Channel	UL # RB	UL RB Offset	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)	Power	Tune-up (dBm)
CA_66C	QPSK	66	20	132072	1	0	66	20	132270	0	0	23.31	24.00	18.22	18.50	17.11	17.50	20.37	21.00	19.12	19.50
CA_66C	QPSK	66	20	132322	1	0	66	20	132520	0	0	23.15	24.00	18.15	18.50	17.12	17.50	20.45	21.00	19.14	19.50
CA_66C	QPSK	66	20	132322	1	0	66	20	132124	0	0	23.27	24.00	18.21	18.50	17.14	17.50	20.32	21.00	19.05	19.50
CA_66C	QPSK	66	20	132572	1	0	66	20	132374	0	0	23.22	24.00	18.23	18.50	17.16	17.50	20.39	21.00	19.01	19.50



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## 7 Conducted Power of Inter-Band LTE Uplink CA

### 7.1 Conducted Power of LTE Uplink CA (Ant13)

LTE Band 2 DSI 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	13.99	13.91	14.10	15.50
		1	2	13.94	14.00	14.01	15.50
		1	5	14.24	14.02	14.05	15.50
		3	0	13.76	13.92	14.10	15.50
		3	2	14.13	14.14	14.31	15.50
		3	3	14.13	14.16	14.01	15.50
		6	0	14.01	13.80	13.91	15.50
	16QAM	1	0	13.97	13.95	14.01	15.50
		1	2	14.10	13.88	14.10	15.50
		1	5	14.13	14.02	14.05	15.50
		3	0	13.79	14.18	14.10	15.50
		3	2	14.18	14.09	14.23	15.50
		3	3	14.00	14.24	14.04	15.50
		6	0	13.91	14.00	13.80	15.50
	64QAM	1	0	13.86	14.06	14.07	15.50
		1	2	14.04	14.10	14.13	15.50
		1	5	14.06	14.06	14.14	15.50
		3	0	13.89	13.95	14.07	15.50
		3	2	13.99	14.16	14.14	15.50
		3	3	14.05	14.14	13.97	15.50
		6	0	14.03	13.97	13.71	15.50
	256QAM	1	0	13.96	13.98	14.12	15.50
		1	2	13.92	13.99	14.05	15.50
		1	5	14.06	13.96	14.22	15.50
		3	0	13.86	14.05	14.07	15.50
		3	2	14.04	14.09	14.20	15.50
		3	3	14.07	14.15	14.00	15.50
		6	0	14.00	13.96	13.81	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	13.92	13.89	14.09	15.50
		1	7	13.96	14.02	14.03	15.50
		1	14	14.19	14.04	13.97	15.50



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Shenzhen Branch Inspection & Testing Laboratory

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		8	0	13.79	13.99	14.13	15.50
		8	4	14.11	14.11	14.30	15.50
		8	7	14.16	14.23	14.06	15.50
		15	0	13.98	13.89	13.83	15.50
	16QAM	1	0	13.94	13.98	14.04	15.50
		1	7	14.08	13.88	14.08	15.50
		1	14	14.11	14.02	14.08	15.50
		8	0	13.81	14.11	14.09	15.50
		8	4	14.14	14.10	14.16	15.50
		8	7	14.04	14.24	14.06	15.50
		15	0	13.94	14.05	13.83	15.50
	64QAM	1	0	13.81	13.99	14.15	15.50
		1	7	14.04	14.04	14.07	15.50
		1	14	14.12	13.98	14.10	15.50
		8	0	13.89	13.97	14.11	15.50
		8	4	14.02	14.17	14.22	15.50
		8	7	14.09	14.19	14.03	15.50
		15	0	14.00	13.90	13.70	15.50
	256QAM	1	0	13.94	13.90	14.12	15.50
		1	7	14.00	13.97	14.05	15.50
		1	14	14.10	13.94	14.12	15.50
		8	0	13.93	14.10	14.15	15.50
		8	4	14.11	14.07	14.13	15.50
		8	7	14.11	14.16	14.01	15.50
		15	0	14.01	13.99	13.89	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	13.98	13.91	14.08	15.50
		1	13	14.00	14.06	14.01	15.50
		1	24	14.16	14.02	13.96	15.50
		12	0	13.75	13.96	14.12	15.50
		12	6	14.16	14.15	14.22	15.50
		12	13	14.06	14.23	14.04	15.50
		25	0	14.00	13.81	13.85	15.50
	16QAM	1	0	13.94	13.95	14.00	15.50
		1	13	14.02	13.85	14.10	15.50
		1	24	14.18	14.02	14.06	15.50
		12	0	13.75	14.17	14.02	15.50
		12	6	14.23	14.13	14.15	15.50
		12	13	14.08	14.21	14.09	15.50



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		25	0	13.96	14.04	13.83	15.50
	64QAM	1	0	13.81	14.00	14.15	15.50
		1	13	14.00	14.08	14.06	15.50
		1	24	14.05	14.03	14.13	15.50
		12	0	13.85	13.91	14.13	15.50
		12	6	14.03	14.13	14.17	15.50
		12	13	14.09	14.20	14.07	15.50
		25	0	14.08	13.96	13.75	15.50
	256QAM	1	0	13.87	13.92	14.03	15.50
		1	13	14.02	13.96	14.00	15.50
		1	24	14.14	13.96	14.15	15.50
		12	0	13.91	14.00	14.14	15.50
		12	6	14.08	14.11	14.13	15.50
		12	13	14.12	14.17	13.99	15.50
		25	0	13.97	14.00	13.82	15.50
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>	<b>Tune up</b>
				18650	18900	19150	
<b>10MHz</b>	QPSK	1	0	13.97	13.94	14.04	15.50
		1	25	13.97	14.07	13.97	15.50
		1	49	14.24	13.96	14.00	15.50
		25	0	13.83	13.92	14.11	15.50
		25	13	14.10	14.10	14.22	15.50
		25	25	14.11	14.26	14.05	15.50
		50	0	13.97	13.87	13.82	15.50
	16QAM	1	0	14.01	14.05	14.05	15.50
		1	25	14.07	13.90	14.16	15.50
		1	49	14.11	14.10	14.12	15.50
		25	0	13.81	14.08	14.06	15.50
		25	13	14.14	14.18	14.20	15.50
		25	25	14.02	14.16	14.11	15.50
		50	0	13.90	14.02	13.82	15.50
	64QAM	1	0	13.86	13.98	14.07	15.50
		1	25	14.03	14.05	14.11	15.50
		1	49	14.08	14.07	14.08	15.50
		25	0	13.85	13.98	14.05	15.50
		25	13	14.01	14.14	14.16	15.50
		25	25	14.04	14.20	14.06	15.50
		50	0	14.08	13.91	13.80	15.50
	256QAM	1	0	13.90	13.96	14.05	15.50
		1	25	14.02	13.97	14.00	15.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18675	18900	19125		
15MHz	QPSK	1	49	14.15	13.93	14.17	15.50	
		25	0	13.89	14.10	14.14	15.50	
		25	13	14.09	14.06	14.20	15.50	
		25	25	14.06	14.23	14.08	15.50	
		50	0	13.98	13.96	13.83	15.50	
		16QAM	1	0	13.94	13.91	14.05	15.50
			1	38	13.97	14.08	13.97	15.50
	1		74	14.20	13.95	13.96	15.50	
	36		0	13.75	13.93	14.20	15.50	
	36		18	14.20	14.14	14.26	15.50	
	36		39	14.11	14.24	14.03	15.50	
	75		0	14.01	13.89	13.90	15.50	
	64QAM	1	0	13.98	13.98	14.00	15.50	
		1	38	14.01	13.95	14.14	15.50	
		1	74	14.18	14.02	14.03	15.50	
		36	0	13.80	14.11	14.08	15.50	
		36	18	14.17	14.11	14.25	15.50	
		36	39	14.00	14.17	14.12	15.50	
		75	0	13.94	14.09	13.89	15.50	
	256QAM	1	0	13.85	14.02	14.16	15.50	
		1	38	13.97	14.05	14.09	15.50	
		1	74	14.06	14.03	14.14	15.50	
		36	0	13.83	13.96	14.04	15.50	
		36	18	14.02	14.17	14.15	15.50	
		36	39	14.05	14.18	14.04	15.50	
		75	0	14.07	13.99	13.76	15.50	
	20MHz	QPSK	1	0	13.98	13.93	14.03	15.50
			1	50	13.93	14.08	14.00	15.50
			1	99	14.14	13.96	14.02	15.50



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16QAM	50	0	13.83	13.99	14.18	15.50
	50	25	14.19	14.11	14.23	15.50
	50	50	14.12	14.19	14.09	15.50
	100	0	13.97	13.80	13.86	15.50
	1	0	13.96	14.00	13.98	15.50
	1	50	14.04	13.85	14.12	15.50
	1	99	14.10	14.07	14.07	15.50
	50	0	13.81	14.14	14.02	15.50
	50	25	14.18	14.10	14.23	15.50
	50	50	14.02	14.16	14.08	15.50
	100	0	13.89	14.00	13.82	15.50
	64QAM	1	0	13.78	14.02	14.07
1		50	14.01	14.05	14.04	15.50
1		99	14.15	14.04	14.09	15.50
50		0	13.88	13.93	14.08	15.50
50		25	13.99	14.16	14.20	15.50
50		50	14.09	14.16	13.99	15.50
100		0	14.04	13.93	13.79	15.50
256QAM	1	0	13.97	13.98	14.06	15.50
	1	50	13.94	13.97	14.00	15.50
	1	99	14.08	13.92	14.19	15.50
	50	0	13.95	14.05	14.13	15.50
	50	25	14.07	14.15	14.16	15.50
	50	50	14.11	14.19	14.08	15.50
	100	0	14.02	14.01	13.81	15.50



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Shenzhen Branch Technical Services Laboratory

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LTE Band 2 DSI 3				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	11.02	10.92	10.98	12.50
		1	2	10.94	11.03	10.95	12.50
		1	5	11.18	10.94	11.02	12.50
		3	0	10.79	10.98	11.18	12.50
		3	2	11.15	11.09	11.25	12.50
		3	3	11.13	11.19	11.12	12.50
		6	0	11.01	10.85	10.82	12.50
	16QAM	1	0	10.94	10.98	11.02	12.50
		1	2	11.01	10.90	11.12	12.50
		1	5	11.10	11.11	11.08	12.50
		3	0	10.80	11.12	11.07	12.50
		3	2	11.19	11.13	11.21	12.50
		3	3	11.07	11.14	11.08	12.50
		6	0	10.93	11.02	10.78	12.50
	64QAM	1	0	10.77	11.05	11.04	12.50
		1	2	11.00	11.07	10.99	12.50
		1	5	11.10	10.99	11.08	12.50
		3	0	10.85	10.97	11.09	12.50
		3	2	10.99	11.15	11.23	12.50
		3	3	11.05	11.20	10.94	12.50
		6	0	11.04	10.91	10.81	12.50
	256QAM	1	0	10.94	10.97	11.08	12.50
		1	2	10.93	11.01	11.01	12.50
		1	5	11.03	10.89	11.16	12.50
3		0	10.92	11.08	11.15	12.50	
3		2	11.09	11.17	11.12	12.50	
3		3	11.08	11.19	11.03	12.50	
6		0	11.00	10.99	10.81	12.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	10.95	10.89	11.01	12.50
		1	7	10.90	11.06	10.97	12.50
		1	14	11.14	10.97	11.04	12.50
		8	0	10.80	11.02	11.14	12.50
		8	4	11.19	11.07	11.23	12.50
		8	7	11.14	11.16	11.06	12.50
						18615	18900



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		15	0	11.00	10.82	10.83	12.50
	16QAM	1	0	11.00	11.03	11.03	12.50
		1	7	10.99	10.81	11.09	12.50
		1	14	11.11	11.05	11.07	12.50
		8	0	10.80	11.17	11.04	12.50
		8	4	11.19	11.05	11.27	12.50
		8	7	11.06	11.18	11.12	12.50
		15	0	10.93	11.01	10.78	12.50
	64QAM	1	0	10.75	11.05	11.10	12.50
		1	7	11.01	11.01	11.04	12.50
		1	14	11.14	10.99	11.04	12.50
		8	0	10.84	10.98	11.05	12.50
		8	4	10.98	11.16	11.21	12.50
		8	7	11.11	11.11	11.03	12.50
		15	0	11.03	10.90	10.81	12.50
	256QAM	1	0	11.00	10.95	11.11	12.50
		1	7	10.95	11.01	11.05	12.50
		1	14	11.11	10.92	11.20	12.50
		8	0	10.98	11.03	11.13	12.50
		8	4	11.12	11.13	11.19	12.50
		8	7	11.10	11.18	11.06	12.50
		15	0	11.00	11.03	10.82	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	10.95	10.92	11.04	12.50
		1	13	10.98	11.04	11.05	12.50
		1	24	11.09	10.99	10.99	12.50
		12	0	10.78	11.02	11.20	12.50
		12	6	11.24	11.12	11.24	12.50
		12	13	11.16	11.23	11.13	12.50
		25	0	11.01	10.79	10.81	12.50
	16QAM	1	0	10.96	11.04	11.01	12.50
		1	13	11.01	10.89	11.11	12.50
		1	24	11.13	11.03	11.04	12.50
		12	0	10.78	11.18	11.00	12.50
		12	6	11.17	11.09	11.25	12.50
		12	13	11.00	11.17	11.07	12.50
		25	0	10.89	10.96	10.82	12.50
	64QAM	1	0	10.80	11.06	11.04	12.50
		1	13	10.96	11.05	11.03	12.50



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		1	24	11.12	11.03	11.14	12.50
		12	0	10.90	10.88	11.03	12.50
		12	6	10.98	11.20	11.18	12.50
		12	13	11.14	11.13	10.97	12.50
		25	0	11.00	10.91	10.79	12.50
	256QAM	1	0	10.94	10.95	11.10	12.50
		1	13	10.93	11.00	11.01	12.50
		1	24	11.03	10.91	11.21	12.50
		12	0	10.99	11.01	11.16	12.50
		12	6	11.07	11.19	11.15	12.50
		12	13	11.14	11.21	11.04	12.50
		25	0	11.03	11.06	10.83	12.50
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>	<b>Tune up</b>
				18650	18900	19150	
10MHz	QPSK	1	0	11.01	10.96	11.01	12.50
		1	25	10.93	11.04	11.02	12.50
		1	49	11.19	10.93	11.06	12.50
		25	0	10.88	11.02	11.23	12.50
		25	13	11.15	11.13	11.28	12.50
		25	25	11.12	11.24	11.13	12.50
		50	0	10.93	10.75	10.88	12.50
	16QAM	1	0	10.95	10.95	11.00	12.50
		1	25	11.05	10.87	11.10	12.50
		1	49	11.06	11.04	11.10	12.50
		25	0	10.77	11.18	10.97	12.50
		25	13	11.16	11.15	11.28	12.50
		25	25	11.03	11.18	11.06	12.50
		50	0	10.89	10.96	10.83	12.50
	64QAM	1	0	10.75	11.03	11.08	12.50
		1	25	11.03	11.00	11.04	12.50
		1	49	11.16	11.08	11.07	12.50
		25	0	10.90	10.98	11.03	12.50
		25	13	11.03	11.19	11.17	12.50
		25	25	11.08	11.16	10.99	12.50
		50	0	11.07	10.88	10.80	12.50
	256QAM	1	0	10.92	10.99	11.01	12.50
		1	25	10.92	10.98	11.02	12.50
		1	49	11.06	10.97	11.18	12.50
		25	0	10.97	11.10	11.11	12.50
		25	13	11.05	11.19	11.11	12.50



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Shenzhen Branch Inspection & Testing Laboratory

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
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Bandwidth	Modulation	RB size	RB offset	25	25	11.15	11.23	11.03	12.50
				50	0	11.02	11.03	10.78	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				18675	18900	19125			
15MHz	QPSK	1	0	10.98	10.93	10.98	12.50		
		1	38	10.95	11.12	11.03	12.50		
		1	74	11.10	10.99	10.97	12.50		
		36	0	10.83	11.04	11.23	12.50		
		36	18	11.16	11.15	11.28	12.50		
		36	39	11.15	11.24	11.06	12.50		
		75	0	11.01	10.75	10.84	12.50		
	16QAM	1	0	10.97	10.97	10.93	12.50		
		1	38	11.04	10.81	11.14	12.50		
		1	74	11.08	11.04	11.05	12.50		
		36	0	10.83	11.12	11.04	12.50		
		36	18	11.20	11.14	11.23	12.50		
		36	39	11.01	11.14	11.13	12.50		
		75	0	10.90	11.02	10.85	12.50		
	64QAM	1	0	10.73	11.07	11.05	12.50		
		1	38	11.06	11.08	11.06	12.50		
		1	74	11.18	11.06	11.08	12.50		
		36	0	10.84	10.96	11.09	12.50		
		36	18	10.96	11.14	11.15	12.50		
		36	39	11.14	11.11	10.98	12.50		
		75	0	11.06	10.97	10.79	12.50		
	256QAM	1	0	11.00	10.97	11.03	12.50		
		1	38	10.96	10.97	10.98	12.50		
		1	74	11.08	10.94	11.24	12.50		
		36	0	10.95	11.03	11.15	12.50		
		36	18	11.07	11.18	11.17	12.50		
		36	39	11.06	11.23	11.08	12.50		
		75	0	11.07	11.04	10.80	12.50		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				18700	18900	19100			
20MHz	QPSK	1	0	10.93	10.90	11.05	12.50		
		1	50	10.89	11.13	11.02	12.50		
		1	99	11.18	10.97	10.97	12.50		
		50	0	10.78	10.94	11.19	12.50		
		50	25	11.19	11.08	11.18	12.50		
		50	50	11.16	11.17	11.11	12.50		



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		100	0	10.96	10.80	10.84	12.50
16QAM	1	0	10.99	11.00	10.99	12.50	
	1	50	10.99	10.83	11.07	12.50	
	1	99	11.11	11.07	11.12	12.50	
	50	0	10.85	11.12	11.03	12.50	
	50	25	11.14	11.07	11.21	12.50	
	50	50	11.03	11.11	11.09	12.50	
	100	0	10.85	10.99	10.85	12.50	
64QAM	1	0	10.82	10.98	11.06	12.50	
	1	50	11.02	11.02	11.06	12.50	
	1	99	11.11	11.09	11.05	12.50	
	50	0	10.93	10.98	11.08	12.50	
	50	25	11.01	11.20	11.25	12.50	
	50	50	11.05	11.19	11.03	12.50	
	100	0	11.00	10.88	10.84	12.50	
256QAM	1	0	10.96	10.95	11.07	12.50	
	1	50	10.95	10.98	11.01	12.50	
	1	99	11.06	10.90	11.17	12.50	
	50	0	10.96	11.05	11.18	12.50	
	50	25	11.06	11.15	11.14	12.50	
	50	50	11.10	11.23	11.04	12.50	
	100	0	11.01	11.02	10.80	12.50	



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Shenzhen Branch Technical Services Co., Ltd. Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

LTE Band 2 DSI 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	22.46	22.40	22.42	24.00
		1	2	22.39	22.47	22.57	24.00
		1	5	22.44	22.43	22.51	24.00
		3	0	22.59	22.53	22.45	24.00
		3	2	22.56	22.56	22.66	24.00
		3	3	22.67	22.57	22.56	24.00
		6	0	21.56	21.64	21.65	23.00
	16QAM	1	0	21.48	21.44	21.40	23.00
		1	2	21.60	21.51	21.46	23.00
		1	5	21.50	21.48	21.58	23.00
		3	0	21.51	21.55	21.61	23.00
		3	2	21.59	21.58	21.67	23.00
		3	3	21.49	21.52	21.45	23.00
		6	0	20.54	20.54	20.47	22.00
	64QAM	1	0	20.36	20.44	20.41	22.00
		1	2	20.50	20.52	20.58	22.00
		1	5	20.45	20.49	20.48	22.00
		3	0	20.42	20.41	20.47	22.00
		3	2	20.47	20.41	20.45	22.00
		3	3	20.38	20.39	20.36	22.00
		6	0	19.56	19.58	19.52	21.00
	256QAM	1	0	17.65	17.68	17.60	19.00
		1	2	17.68	17.70	17.67	19.00
		1	5	17.74	17.66	17.76	19.00
3		0	17.54	17.57	17.65	19.00	
3		2	17.65	17.64	17.74	19.00	
3		3	17.75	17.66	17.62	19.00	
6		0	17.51	17.52	17.53	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	22.12	22.29	22.21	24.00
		1	7	22.23	22.31	22.28	24.00
		1	14	22.22	22.16	22.24	24.00
		8	0	21.43	21.46	21.50	23.00
		8	4	21.46	21.39	21.51	23.00
		8	7	21.46	21.47	21.65	23.00



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		15	0	21.49	21.50	21.33	23.00
	16QAM	1	0	21.43	21.35	21.26	23.00
		1	7	21.36	21.27	21.24	23.00
		1	14	21.20	21.22	21.26	23.00
		8	0	20.30	20.50	20.29	22.00
		8	4	20.47	20.60	20.43	22.00
		8	7	20.42	20.43	20.29	22.00
		15	0	20.45	20.54	20.52	22.00
	64QAM	1	0	20.35	20.33	20.30	22.00
		1	7	20.36	20.40	20.33	22.00
		1	14	20.29	20.36	20.25	22.00
		8	0	19.39	19.39	19.40	21.00
		8	4	19.50	19.36	19.46	21.00
		8	7	19.43	19.39	19.31	21.00
		15	0	19.54	19.57	19.57	21.00
	256QAM	1	0	17.44	17.54	17.48	19.00
		1	7	17.47	17.41	17.59	19.00
		1	14	17.63	17.67	17.71	19.00
		8	0	17.52	17.36	17.49	19.00
		8	4	17.56	17.49	17.60	19.00
		8	7	17.57	17.49	17.38	19.00
		15	0	17.52	17.58	17.46	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	22.06	22.26	22.06	24.00
		1	13	22.07	22.34	22.26	24.00
		1	24	22.33	22.09	22.27	24.00
		12	0	21.44	21.47	21.65	23.00
		12	6	21.54	21.54	21.64	23.00
		12	13	21.47	21.41	21.56	23.00
		25	0	21.49	21.44	21.44	23.00
	16QAM	1	0	21.40	21.23	21.36	23.00
		1	13	21.24	21.40	21.26	23.00
		1	24	21.29	21.19	21.25	23.00
		12	0	20.30	20.41	20.36	22.00
		12	6	20.44	20.56	20.35	22.00
		12	13	20.32	20.40	20.42	22.00
		25	0	20.47	20.56	20.45	22.00
	64QAM	1	0	20.49	20.25	20.37	22.00
		1	13	20.38	20.32	20.32	22.00



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		1	24	20.43	20.18	20.38	22.00
		12	0	19.38	19.50	19.39	21.00
		12	6	19.44	19.36	19.44	21.00
		12	13	19.52	19.31	19.49	21.00
		25	0	19.39	19.50	19.57	21.00
	256QAM	1	0	17.48	17.50	17.61	19.00
		1	13	17.41	17.48	17.51	19.00
		1	24	17.70	17.69	17.66	19.00
		12	0	17.61	17.40	17.51	19.00
		12	6	17.68	17.49	17.51	19.00
		12	13	17.66	17.48	17.37	19.00
		25	0	17.48	17.54	17.53	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	22.15	22.28	22.07	24.00
		1	25	22.04	22.19	22.31	24.00
		1	49	22.32	22.14	22.24	24.00
		25	0	21.41	21.43	21.65	23.00
		25	13	21.63	21.57	21.63	23.00
		25	25	21.41	21.53	21.58	23.00
		50	0	21.54	21.46	21.48	23.00
	16QAM	1	0	21.43	21.24	21.35	23.00
		1	25	21.34	21.28	21.29	23.00
		1	49	21.30	21.20	21.11	23.00
		25	0	20.37	20.39	20.41	22.00
		25	13	20.46	20.47	20.51	22.00
		25	25	20.39	20.45	20.48	22.00
		50	0	20.41	20.43	20.43	22.00
	64QAM	1	0	20.38	20.34	20.27	22.00
		1	25	20.24	20.24	20.25	22.00
		1	49	20.33	20.17	20.24	22.00
		25	0	19.24	19.35	19.35	21.00
		25	13	19.38	19.51	19.50	21.00
		25	25	19.53	19.31	19.30	21.00
		50	0	19.58	19.56	19.41	21.00
	256QAM	1	0	17.56	17.47	17.51	19.00
		1	25	17.39	17.51	17.62	19.00
		1	49	17.62	17.59	17.77	19.00
		25	0	17.53	17.48	17.51	19.00
		25	13	17.55	17.57	17.51	19.00



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